Manual Wet Process Station manWPS

Manual Wet Chemical Processing

→ Full modular design
→ Cost effective and customer-orientated
→ Flexible process applications
→ Optimized footprint

Application
IC manufacturing in Si, III/V materials, compound semiconductors
→ MEMS
→ CMOS
→ Sensor
→ Wafering
→ R&D (Semiconductor and PV Technology)
Product customization available

Processes
Cleaning-, etching-, solvent- and photoresist processes
at pilot-line, mid-size production and R&D applications

Specification and Benefits
→ Executed for operator-friendly processing of semiconductor applications
→ Design features to guarantee all safety aspects for manual operation
→ Fast installation and start-up according one connection interface feature and modular design
→ Easy maintenance access from grey area side
→ PLC controlled operation
→ Touch display at operating panel with text menu, with main features:
  → Process bath timer
  → Temperature and further bath settings
  → Chemical dosage management
  → Rinse management (QDR)
→ Compliant with all Major Design Standards [CE, UL, SEMI]

Optional
→ FM 4910 proofed material
→ Internal supply and disposal system with/without carboy
→ Chemical recirculation-/filtration system
→ Ultrasonic or megasonic enhancement
→ Chemical recirculation-/filtration system
→ Internal chemical management system (feed-/and bleed)
→ Carrier movement [stroke] at process bathes
→ Exhaust reduction system
→ Execution as fumehood

MANUAL WET PROCESS STATION
Technical Data

<table>
<thead>
<tr>
<th>Substrate</th>
<th>max. 8” wafer</th>
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<tbody>
<tr>
<td>Batch Size</td>
<td>max. 2 x 8” (50 wafers)</td>
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<tr>
<td>Available Process Tank</td>
<td>PP/PVDF/PTFE/PFA, Quartz or Stainless Steel</td>
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<tr>
<td>Rinse Tank</td>
<td>Quick-Dump-Rinser</td>
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SINGULUS TECHNOLOGIES – Innovations for New Technologies

SINGULUS TECHNOLOGIES develops and assembles innovative machines and systems for efficient and resource-saving production processes, which are used worldwide in the solar, semiconductor, medical technology, consumer goods and data storage.

The company’s core competencies include various processes of coating technology, surface treatment and wet-chemical and thermal production processes.